

Safety Data Sheet

Product Name	Glycerol
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:

Product Description: Glycerol

Synonyms: Glyercine

CAS-No: 56-81-5

EC-No.: 200-289-5

Molecular Formula: C₃ H₈ O₃

REACH Registration No: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration, or the registration is Envisaged for a later registration deadline.

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Recommended Use:

Laboratory chemicals & as Excipients

Details of the supplier of the safety data sheet:

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.
Web: www.finarchemicals.com
- **E-Mail Address** safety.finar@aceto.com; info.finar@aceto.com

1.3. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717,

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label Elements:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Glycerol

3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Glycerol	56-81-5	200-289-5	≥85%

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

- **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

- **If case of skin contact**

Wash off with soap and plenty of water.

- **In case of eye contact**

Flush eyes with water as a precaution.

- **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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4.2. Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling
(see section 2.2) and/or in section 11

4.3. Indication of any immediate medical attention and special treatment needed:

No information Available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media- For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture:

Carbon oxides
Combustible.

5.3. Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further Information:

No information Available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2. Environmental precautions:

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal.

6.4. Reference to other sections:

For disposal see Sections 13.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

Store in cool place. hygroscopic

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Components with workplace control parameters

8.2. Exposure Controls:

- **Appropriate Engineering Controls:**

General industrial hygiene practice.

Personal Protective Equipment:

- **Eye & Face Protection-**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- **Skin Protection -**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

- **Body Protection-**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- **Respiratory Protection-**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

- **Environmental Exposure Controls-**

No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** - **Form:** - Viscous
Color: - Colorless
- **Physical State:** - Liquid
- **Odour:** - Odourless
- **pH:** - 5.5 to 8
- **Melting Point:** - 20 °C
- **Critical Temperature:** - No data available
- **Vapor Pressure:** - 0,004 hPa at 50 °C
0,260 hPa at 100 °C

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5,7 hPa at 150 °C

- **Vapor Density:** - 3.18 - (Air = 1.0)
- **Volatility:** - No data available
- **Bulk Density:** - No data available
- **Odor Threshold:** - No data available
- **Water/Oil Dist. Co eff.:** - No data available
- **Ionicity (in Water):** - No data available
- **Boiling Point/Range:** - 182 °C at 27 hPa
- **Flash Point:** - 199 °C at ca.1013,0 hPa - Pensky-Martens closed cup
- **Specific Gravity / Density:** - 1.07 g/cm³ at 25 °C
- **Solubility:** - Water miscible

9.2. Other information:

Molecular Formula: - C₃ H₈ O₃

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

No information Available

10.2. Chemical stability:

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions:

No information Available

10.4. Conditions to avoid:

No information Available

10.5. Incompatible materials:

Strong oxidizing agents

10.6. Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions.

Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

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SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects:****Acute toxicity**

LD50 Oral - Rat - 27.200 mg/kg

Remarks: (ECHA)

LD50 Dermal - Rabbit - > 10.000 mg/kg

Skin corrosion/irritation**Serious eye damage/eye irritation**

(ECHA)

Respiratory or skin sensitization

No information available

Germ cell mutagenicity

No information available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No information available

Specific target organ toxicity - single exposure

No information available

Specific target organ toxicity - repeated exposure

No information available

Aspiration hazard

No information available

Additional Information

RTECS: MA8050000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Toxicity to fish Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 54.000 mg/l - 96 h
Remarks: (ECHA)

Toxicity to daphnia Remarks: No data available (Glycerol)
and other aquatic
invertebrates

Toxicity to algae Remarks: No data available (Glycerol)

12.2 Persistence and degradability:

Biodegradability Aerobic - Exposure time 2 d
Result: 90 % - Readily biodegradable.
Remarks: (ECHA)

12.3 Bioaccumulate potential:

No information available

12.4 Mobility in soil:

No information Available

12.5 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No information Available

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

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SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	—	—	—
14.2 Proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3 Class	—	—	—
14.4 Packing group	—	—	—
14.5 Environmentally hazardous	No	No	No
14.6 Special precautions for user	No information available	No information available	No information available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment:

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

References: Not available

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